OMB Control Nos. 1505	i-0080 & 1505-00	81 Exp. 9/30/98	3			
AMENDMENT OF SOLICITATIO			1. CONTRACT II	CODE	PAGE OF F	AGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PUR	CHASE REQ. NO.	5. PROJECT	NO. (If applicab	le)
<u>0007</u> 6. ISSUED BY	_ 01/28/98	0-8-10-U3-TR-A36 7. ADMINISTERED B	Y (If other than Iten	1 6)		
CODE		-		COI	DE	
INTERNAL REVENUE SERVICE						
A/C (PROCUREMENT) M:P:I:D 6009 Oxon Hill Road, 7th Floor						
Oxon Hill, MD 20745						
8. NAME AND ADDRESS OF CONTRACTOR (I	No., street, county, State a	nd ZIP Code)	<u>(√)</u> 9A. AMEN	IDMENT OF SOL	LICITATION NO.	
			TID	NO-98-R-00	0003	
) (SEE ITEM 11)		
				,		
TO ALL OFFEDORS				r 23, 1997		
TO ALL OFFERORS			10A. MODI NO.	FICATION OF C	ONTRACT/ORD	ŁR
			10B. DATE	ED (SEE ITEM 13	3)	
	Y CODE					
• • •	M ONLY APPLIES TO				d. X is n	-1
X The above numbered solicitation is amende tended.	d as sel forth in flem 14. T	ne nour and date specifie	a for receipt of Offers	, is extende	u, x is n	ot ex-
Offers must acknowledge receipt of this amendmen	nt prior to the hour and date	e specified in the solicitation	on or as amended, by	one of the follow	rina methods:	
(a) By completing Items 8 and 15, and returning _	·	•			· ·	
submitted; or (c) By separate letter or telegram wh						
BE RECEIVED AT THE PLACE DESIGNATED F						
OF YOUR OFFER. If by virtue of this amendment telegram or letter makes reference to the solicitation					r letter, provided e	ach
12. ACCOUNTING AND APPROPRIATION DAT		·		<u> </u>		
12. ACCOUNTING AND AFFROFRIATION DAT	A (II required)					
	APPLIES ONLY TO MO					_
A. THIS CHANGE ORDER IS ISSUED PU	S THE CONTRACT/OI				E IN THE CONTE	2 A C T
ORDER NO. IN ITEM 10A.	indonini io. (Specily at	unonty) THE CHANGES	SETT OKTITIVITE	IN 14 AILE MADI	L IIV THE CONTI	VAC1
B. THE ABOVE NUMBERED CONTRACT	T/ORDER IS MODIFIED T	O REFLECT THE ADMIN	NISTRATIVE CHANG	GES (such as ch	anges in paying o	office,
appropriation data, etc.) SET FORTH I C. THIS SUPPLEMENTAL AGREEMENT						
C. THIS SUFFLEWENTAL AGREEMENT	IS ENTERED INTO FOR	SOANT TO AUTHORITE	OF.			
D. OTHER (Specify type of modification ar	nd authority)					
E. IMPORTANT: Contractor is not,	is required to sign this do	cument and return	copies to the iss	uing office.		
14. DESCRIPTION OF AMENDMENT/MODIFICA					horo fossible)	
14. DESCRIPTION OF AMENDMENT/MODIFICA	TION (Organized by OCF's	section neadings, including	y solicitation/contract	Subject matter wi	riere reasible.)	
See Page 2.						
Except as provided herein, all terms and conditions effect.	of the document reference	ed in Item 9A or 10A, as he	eretofore changed, re	mains unchange	d and in full force	and
15A. NAME AND TITLE OF SIGNER (Type or pr	int)	16A. NAME AND	TITLE OF CONTRA	CTING OFFICE	R (Type or print)	
	<u>.</u>				_	
15B. CONTRACTOR/OFFEROR	15C. DATE SIG	GNED 16B. UNITED ST	ATES OF AMERICA	4	16C. DATE S	SIGNED
		BY				
(Signature of person authorized to sign)			ature of Contracting (Officer)	- [

Solicitation No. TIRNO-98-R-00003 Amendment 0007

Solicitation No. TIRNO-98-R-00003 dated October 23, 1997 is hereby amended as follows:

- 1. The below referenced pages are hereby revised and incorporated into Solicitation No. TIRNO-98-R-00003:
 - a. Pages B-14, B-14a, and B-16. These pages are hereby replaced in their entirety with the attached corresponding numbered replacement pages.
 - b. Section D-4 has been replaced in its entirety.
- 2. The proposal due date remains as follows:
 - a. Full and open competitive portion is due February 4, 1998.
 - b. Small business set-aside portion is due February 20, 1998.

- f. internal 90mm (3.5") High Density Floppy Disk Drive;
- g. additional drive bays for one orderable hard disk drive and one orderable internal Storage Device (e.g., PCMCIA Socket/Port, Tape Back-Up);
- h. 32-Bit SVGA card with 2MB RAM. If integrated on motherboard, must be capable of being disabled and include instructions for disabling; local-bus video compatible, 1024 x 768 resolution, 64K color;
- i. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1, 2, 3, or 4;
- j. one parallel port (bidirectional);
- k. QWERTY non-membrane keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.);
- 1. mouse (not to be connected to the required serial interface described above);
- m. mouse pad;
- n. at least 3 free expansion slots, 2 of which must be 32-bit (minimum) expansion slots; and
- o. documentation, connection, and installation instructions.

B.9.1.2. Two Categories of Workstations

The Contractor shall provide two categories of workstations (separate CLINs).

- (a) One workstation provided shall be, at a minimum, a 233 MHz Pentium MMX or equivalent system.
- (b) The second workstation provided shall be, at a minimum, a 200 MHz Pentium MMX or equivalent system.
- (c) A processor equivalent to a Pentium MMX shall include the following, at a minimum:
 - (1) 100 percent binary code compatible with the 80X86 architecture base;
 - (2) allows sophisticated visual capabilities while maintaining background functions;
 - (3) RESERVED
 - (4) built-in cache controller;

- (5) built-in floating point unit;
- (6) 32-bit address bus interface, and internal data path;
- (7) 64-bit data address bus interface;
- (8) ensures that the data in the cache and in main memory are consistent with one another.
- (9) minimum 32k combined internal cache;
- (10) executes MMX instructions.

In addition to the salient characteristics, the equivalent processor must run the operating system, GUI, and application software in native applications at processor clock speed intended (e.g., not modification to, and/or additional software, drivers and/or hardware items/products required).

In order to be considered equivalent, the proposed processor shall not:

- (a) be externally enhanced to make it perform beyond its original intent and design;
- (b) be software enhanced to make the processor "think" that it is something other than what it was originally designed to be, or require additional processing demands;
- (c) be modified to speed-up the processing capabilities through the use of additional products;
- (d) cause system stressing;
- (e) cause peripheral driver conflicts;
- (f) cause BIOS conflicts;
- (g) have the clock modified beyond original manufacturer's design and warranty guidelines.

[The next page is Page B-15.]

B.9.2.2. Two Categories of Servers

The Contractor shall provide two categories of servers (separate CLINs).

- (a) One server provided shall be, at a minimum, a single microprocessor Pentium II 233 MHz or equivalent system.
- (b) The second server provided shall be, at a minimum, a dual microprocessor Pentium II 233 MHz or equivalent system, and include two microprocessors.
- (c) A processor equivalent to the Pentium II shall include the following, at a minimum:
 - (1) 32K L1 cache;
 - (2) MMX technology;
 - (3) Floating Point Unit;
 - (4) Out of Order Execution;
 - (5) Superscalar architecture;
 - (6) Speculative Execution;
 - (7) 64-bit bus width;
 - (8) Compatible with existing software; and
 - (9) Register Renaming.

B.9.3. MICROCOMPUTERS - NOTEBOOKS

B.9.3.1. General Microcomputers - Notebook Requirements

At a minimum, all notebooks provided shall include, but not be limited to, the following components:

- a. 32MB RAM, expandable to a minimum 72MB RAM, on the motherboard;
- b. 32KB internal and 256KB external cache memory;

D.4 INSTRUCTIONS FOR COMPLETING REQUIREMENTS

Included in this section are the matrices for each product requirement listed in Section B. Each product requirement has its own unique and individual matrix. Each matrix has been designed to parallels specific needs and requirements within Section B. Each matrix shall not be used for, or combined with, any other matrix to meet any other product requirements. The matrices have been designed to be part of the validation process for each contract and functional requirement. The matrices were developed in WordPerfect 6.x for Windows.

You are not allowed to make any changes to the matrices. You are only allowed to fill in the information as required for validation. If you make any changes to the matrices, other than to provide the information for validation purposes, your proposal will be considered noncompliant.

Each matrix is divided into columns for ease of reference to the requirements in Section B. All matrices include columns listing the "RFP Reference", "Required Minimum Specifications", "Yes", and "No" headers. The matrices listing the product functional specifications include additional columns for "Technical Literature Reference", "Manufacturer", and "Model Number". To the right of the "Yes" and the "No" columns are blank columns, with no header.

Each matrix must be completed and submitted with the proposal. Refer to Section E, for proposal submission instructions.

If you wish to propose, you need to download the matrices. You must use the individual matrices for all matrices required responses. Import the matrices into electronic form for data entry. No handwritten responses will be accepted. All matrices must be saved in WordPerfect 6.1, when completed.

In order to respond to the requirements you must place an "X" in the row to the right of the "Yes" or "No" column for each required specification, depending upon your decision to meet or not meet the stated requirements. You are only allowed one "Yes" or "No" answer per row. If you answer both "Yes" and "No" to the same requirement, it will be considered as if you did not address the requirement. If you do not place an "X" in either the "Yes" or "No" row/column, it will be considered as if you did not address the requirement. If you do not address all requirements, your proposal may be considered noncompliant.

The column with the "Tech Lit Ref" (Technical Literature Reference) is to be completed by the offeror. The Technical Evaluation Team will be performing a technical validation during this part of the proposal evaluation process. This column is used to list the individual technical literature reference requirements for each of the corresponding "Required Minimum Specifications." The technical literature reference will list where the specific requirement is referenced in the technical literature provided, by the offeror, with the proposal. The technical literature reference should include, at a minimum, tab, page, column, and paragraph, for ease of reference. (Refer to Section E for proposal submission guidelines.) It is recommended that the offeror highlight the specific reference in the technical literature, also. Technical information that is not easy to locate, or understand may make the proposal noncompliant.

Technical literature includes published brochures, pamphlets, and manuals. It is not necessary to include the entire manual, but rather the specific page(s) used to validate the requirement. Specific pages include the manual cover/title, index/table of contents, and relevant/specific page(s) used for reference. If published documentation is not available to address specific requirements, a letter from the manufacturer, OEM, or supplier, on letterhead, stating the requirements must be provided. The letter must be dated, list this solicitation number and title, specific CLIN(s) being referenced, specific requirement(s) being met/exceeded, how the specific requirements are being met/exceeded, and signed by a company official. A letter from the offer is not acceptable, unless the offeror is the manufacturer, OEM, or supplier. Documentation must be provided by the company ("company" is a term as generally understood) that will be providing the product(s) to be offered against this solicitation.

The "Manufacturer (and) Model Number" column is used to list the specific manufacturer/model number of product being offered that meets the specific "Required Minimum Specification." If a manufacture or model number is not applicable to the specific "Required Minimum Specification" then a "NA" is to be listed. For example, if the Mouse Pad is being referenced, it can be listed as Acme Mouse Pads Inc./NA. The "/" divides the manufacturer reference from the model number reference. However, if the mouse pad does have a model number, that same example would be as follows: Acme Mouse Pads Inc./448-248P.

		 	
General Requirements Matrix *			
10/23/97			
RFP Reference	Required Minimum Specifications		
	The offeror has read, understands and agrees to the following Sections in the Request for Proposals:		
B.3.	Contract Pricing	Yes>>	No >>
B.4.	Program Ceiling Amount	Yes>>	No >>
B.5.	Scope of Contract	Yes>>	No >>
B.6	Available to Other Federal Agencies	Yes>>	No >>
B.7.	General Description	Yes>>	No >>
B.8.	General Requirements	Yes>>	No >>
B.8.	FAR Part 12 & Part 2	Yes>>	No >>
B.8.a.	product compatibility	Yes>>	No >>
B.8.b.	product components/driver requirements	Yes>>	No >>
B.8.c.	Centronics and RS-232 requirements	Yes>>	No >>
B.8.d.	interface and communication requirements	Yes>>	No >>
B.8.e.	GFP requirements	Yes>>	No >>
B.8.f.	Executive Order Number 12845 (April 21, 1993)	Yes>>	No >>
B.8.	Year 2000 Warranty (1052.239-9002)	Yes>>	No >>
B.8.1.	General User Environment	Yes>>	No >>
B.8.2.	Pre-Installation	Yes>>	No >>
B 8.3.	Documentation and installation instructions.	Yes>>	No >>
B.8.4.	Hardware and Software	Yes>>	No >>

TIRNO-98-R-00003 Section D-4 October 23, 1997

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General Requirements Matrix *						
10/23/97						
RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9. MICROCOMPUTERS						
B.9.1. MICROCOMPUTERS - WORKSTATIONS (Workstation #1)	CLIN 0001					
	At a minimum, the workstation proposed shall include, but not be limited to, the following components:					
B.9.1.1.a.	a. microprocessor, at a minimum, Pentium MMX or equivalent system; backwards compatible to the existing hardware and software base as listed in Sections B.7 and B.9.1.;	Yes>>		No >>		
B.9.1.1.b.	 b. minimum 32MB RAM, system expandable to a minimum 128MB, on the motherboard; 	Yes>>		No >>		
B.9.1.1.c.	c. minimum 2.0GB formatted, non-compressed hard disk drive	Yes>>		No>>		
B.9.1.1.d.	d. 512KB cache memory;	Yes>>		No >>		
B.9.1.1.e.	e. internal CD-ROM drive, minimum 20x speed	Yes>>		No >>		
B.9.1.1.f.	f. internal 90mm (3.5") High Density Floppy Disk Drive;	Yes>>		No >>		
B.9.1.1.g.	g. additional drive bays for one orderable hard disk drive and one orderable internal Storage Device (e.g., PCMCIA Socket/Port, Tape Back-Up);	Yes>>		No >>		
B.9.1.1.h.	h. 32 Bit SVGA card with 2MB RAM. If integrated on motherboard, must be capable of being disabled and include instructions for disabling; local-bus video compatible, 1024 x 768 resolution, 64K color;	Yes>>		No >>		
B.9.1.1.i.	I. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1, 2, 3, or 4;	Yes>>		No >>		
B.9.1.1.j.	j. one parallel port (bidirectional);	Yes>>		No >>		
B.9.1.1.k.	k. QWERTY non-membrane keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.);	Yes>>	_	No >>		
B.9.1.1.l.	I. mouse (not to be connected to the required serial interface described above);	Yes>>		No >>		
B.9.1.1.m.	m. mouse pad;	Yes>>		No >>		
B.9.1.1.n.	n. at least 3 free expansion slots, 2 of which must be 32-bit (minimum) expansion slots; and	Yes>>		No >>		
B.9.1.1.o.	o. documentation, connection, and installation instructions	Yes>>		No >>		

General Requirements Matrix *					
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10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
	Categories of Workstations (separate CLINs)				
B.9.1.2.(a)	(a) One workstation provided shall be, at a minimum, 233 MHz Pentium MMX or equivalent system	Yes>>	No >>		
B.9.1.2.(c)	(c) A processor equivalent to a Pentium MMX shall include the following, at a minimum:				
B.9.1.2.(c)(1)	(c)(1) 100 percent binary code compatible with the 80X86 architecture base;	Yes>>	No >>		
B.9.1.2.(c)(2)	(c)(2) Allows sophisticated visual capabilities while maintaining background functions;	Yes>>	No >>		
B.9.1.2.(c)(3)	(c)(3) Reserved				
B.9.1.2.(c)(4)	(c)(4) Built-in cache controller;	Yes>>	No >>		
B.9.1.2.(c)(5)	(c)(5) Built-in floating point unit;	Yes>>	No >>		
B.9.1.2.(c)(6)	(c)(6) 32-bit address bus interface and internal data path;	Yes>>	No >>		
B.9.1.2.(c)(7)	(c)(7) 64-bit data address bus interface	Yes>>	No >>		
B.9.1.2.(c)(8)	(c)(8) Ensures that the data in the cache and in main memory are consistent with one another;	Yes>>	No >>		
B.9.1.2.(c)(9)	(c)(9) Minimum 32K combined internal cache;	Yes>>	No >>		
B.9.1.2.(c)(10)	(c)(10) Executes MMX instructions.	Yes>>	No >>		
B.9.1.2.	In addition to the salient characteristics, the equivalent processor must run the operating system, GUI, and application software in native applications at processor clock speed intended (e.g., not modification to, and/or additional software, drivers and/or hardware items/products required).	Yes>>	No >>		
B.9.1.2.	In order to be considered equivalent, the proposed processor shall not:				
B.9.1.2.(c) (a)	(c)(a) Be externally enhanced to make it perform beyond its original intent and design;	Yes>>	No >>		
B.9.1.2.(c) (b)	(c)(b) Be software enhanced to make the processor "think" that it is something other than what it was originally designed to be, or require additional processing demands;	Yes>>	No >>		
B.9.1.2.(c) (c)	(c) (c) Be modified to speed-up the processing capabilities through the use of additional products;	Yes>>	No >>		
B.9.1.2.(c) (d)	(c)(d) Cause system stressing;	Yes>>	No >>		
B.9.1.2.(c) (e)	(c)(e) Cause peripheral driver conflicts;	Yes>>	No >>		
B.9.1.2.(c) (f)	(c)(f) Cause BIOS conflicts;	Yes>>	No >>		
B.9.1.2.(c) (g)	(c)(g) Have the clock modified beyond original manufacturer's design and warranty guidelines.	Yes>>	No >>		

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General Requirements Matrix *						
10/23/97						
RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9.	MICROCOMPUTERS					
B.9.1. MICROCOMPUTERS - WORKSTATIONS (Workstation #2)	CLIN 0002					
	At a minimum, the workstation proposed shall include, but not be limited to, the following components:					
B.9.1.1.a.	a. microprocessor, at a minimum, Pentium MMX or equivalent system, backwards compatible to the existing hardware and software base as listed in Sections B.7 and B.9.1.;	Yes>>	No >>			
B.9.1.1.b.	b. minimum 32MB RAM, system expandable to a minimum 128MB, on the motherboard;	Yes>>	No >>			
B.9.1.1.c.	c. minimum 2.0GB formatted, non-compressed hard disk drive	Yes>>	No >>			
B.9.1.1.d.	d. 512KB cache memory;	Yes>>	No >>			
B.9.1.1.e.	e. internal CD-ROM drive, minimum 20x speed	Yes>>	No >>			
B.9.1.1.f.	f. internal 90mm (3.5") High Density Floppy Disk Drive;	Yes>>	No >>			
B.9.1.1.g.	g. additional drive bays for one orderable hard disk drive and one orderable internal Storage Device (e.g., PCMCIA Socket/Port, Tape Back-Up);	Yes>>	No >>			
B.9.1.1.h.	h. 32 Bit SVGA card with 2MB RAM. If integrated on motherboard, must be capable of being disabled and include instructions for disabling; local-bus video compatible, 1024 x 768 resolution, 64K color;	Yes>>	No >>			
B.9.1.1i.	i. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1, 2, 3, or 4;	Yes>>	No >>			
B.9.1.1.j.	J. one parallel port (bidirectional);	Yes>>	No >>			
B.9.1.1.k.	k. QWERTY non-membrane keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.);	Yes>>	No >>			
B.9.1.1.l.	I. mouse (not to be connected to the required serial interface described above);	Yes>>	No >>			
B.9.1.1.m.	m. mouse pad;	Yes>>	No >>			
B.9.1.1.n.	n. at least 3 free expansion slots, 2 of which must be 32-bit (minimum) expansion slots; and	Yes>>	No >>			
B.9.1.1.o.	o. documentation, connection, and installation instructions	Yes>>	No >>			

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General Requirements Matrix *						
10/23/97						
RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
	Categories of Workstation (separate CLINs)					
B.9.1.2.(b)	(b) The second workstation provided shall be, at a minimum, a 200 MHz Pentium MMX or equivalent system.	Yes>>		No >>		
B.9.1.2.(c)	(c) A processor equivalent to a Pentium MMX shall include the following, at a minimum:					
B.9.1.2.(c)(1)	(c)(1) 100 percent binary code compatible with the 80x86 architecture base;	Yes>>		No >>		
B.9.1.2.(c)(2)	(c)(2) Allows sophisticated visual capabilities while maintaining background functions;	Yes>>		No >>		
B.9.1.2.(c)(3)	(c)(3) Reserved					
B.9.1.2.(c)(4)	(c)(4) Built-in cache controller;	Yes>>		No >>		
B.9.1.2.(c)(5)	(v)(5) Built-in floating point unit;	Yes>>		No >>		
B.9.1.2.(c)(6)	(c)(6) 32-bit address bus interface, and internal data path;	Yes>>		No >>		
B.9.1.2.(c)(7)	(c)(7) 64-bit data address bus interface;	Yes>>		No >>		
B.9.1.2.(c)(8)	(c)(8) Ensures that the data in the cache and in main memory are consistent with one another;	Yes>>		No >>		
B.9.1.2.(c)(9)	(c)(9) Minimum 32K combined internal cache;	Yes>>		No >>		
B.9.1.2.(c)(10)	(c)(10) Executes MMX instructions.	Yes>>		No >>		
B.9.1.2.	In addition to the salient characteristics, the equivalent processor must run the operating system, GUI, and application software in native applications at processor clock speed intended (e.g., not modification to, and/or additional software, drivers and/or hardware items/products required).	Yes>>		No >>		
B.9.1.2.	In order to be considered equivalent, the proposed processor shall not:					
B.9.1.2.(c) (a)	(c)(a) Be externally enhanced to make it perform beyond its original intent and design;	Yes>>		No >>		
B.9.1.2.(c) (b)	(c)(b) Be software enhanced to make the processor "think" that it is something other than what it was originally designed to be, or require additional processing demands;	Yes>>		No >>		
B.9.1.2.(c) (c)	(c) (c) Be modified to speed-up the processing capabilities through the use of additional products;	Yes>>		No >>		
B.9.1.2.(c) (d)	(c)(d) Cause system stressing;	Yes>>		No >>		
B.9.1.2.(c) (e)	(c)(e) Cause peripheral driver conflicts;	Yes>>		No >>		
B.9.1.2.(c) (f)	(c)(f) Cause BIOS conflicts;	Yes>>		No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.1.2.(c) (g)	(c)(g) Have the clock modified beyond original manufacturer's design and warranty guidelines.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
252.2				T 1155	
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.2. MICROCOMPUTERS -	OLIN 0000				
SERVERS (Single)	CLIN 0003				
· · ·					
	At a minimum, all servers provided shall include, but not be limited to, the following components:				
B.9.2.1.a.	 a. minimum 128MB RAM, system expandable to a mimimum 512MB, on the motherboard; 	Yes>>	No >>		
B.9.2.1.b.	b. minimum 4.0GB formatted and non-compressed hard disk drive.	Yes>>	No >>		
B.9.2.1.c.	c. internal CD-ROM, minimum 20x speed;	Yes>>	No >>		
B.9.2.1.d.	d. 512KB cache memory, per microprocessor;	Yes>>	No >>		
B.9.2.1.e.	e. internal 90mm (3.5") High Density Floppy Disk Drive;	Yes>>	No >>		
B.9.2.1.f.	f. 32 Bit SVGA card with minimum 2MB RAM. If integrated on motherboard, must be capable of being disabled and include instructions for disabling; local-bus video compatible, 1024 x 768 resolution, 64K color;	Yes>>	No >>		
B.9.2.1.g	g. plus an additional four available drive bays for four orderable hard disk drives and two bays for additional orderable internal Storage Devices (e.g., PCMCIA Device, Tape Back-Up) for a minimum of 9 system bays;	Yes>>	No >>		
B.9.2.1.h.	h. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1, 2, 3, or 4;	Yes>>	No >>		
B.9.2.1.i.	i. one parallel port (bidirectional);	Yes>>	No >>		
B.9.2.1.j.	 j. QWERTY non-membrane keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.); 	Yes>>	No >>		
B.9.2.1.k.	 k. mouse (not to be connected to the required serial interface described above); 	Yes>>	No >>		
B.9.2.1.l.	I. mouse pad;	Yes>>	No >>		
B.9.2.1.m.	m. at least 3 free expansion slots, 2 of which must be 32-bit (minimum) expansion slots; and	Yes>>	No >>		
B.9.2.1.n.	n. documentation, connection, and installation instructions.	Yes>>	No >>		
	Categories of Servers		 		
B.9.2.2(a)	(a) One server provided shall be, at a minimum, a single microprocessor Pentium II 233 MHz or equivalent system.	Yes>>	No >>		
B.9.2.2.(c)	(c) A processor equivalent to the Pentium II shall include the following, at a minimum:				
B.9.2.2.(c)(1)	(c)(1) 32K L1 cache;	Yes>>	No >>		
B.9.2.2.(c)(2)	(c)(2) MMX technology;	Yes>>	No >>		

Section D-4

October 23, 1997

General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.2.2.(c)(3)	(c)(3) Floating Point Unit;	Yes>>	No >>		
B.9.2.2.(c)(4)	(c)(4) Out of Order Execution;	Yes>>	No >>		
B.9.2.2.(c)(5)	(c)(5) Superscalar Architecture;	Yes>>	No >>		
B.9.2.2.(c)(6)	(c)(6) Speculative Execution;	Yes>>	No >>		
B.9.2.2.(c)(7)	(c)(7) 64-bit bus width;	Yes>>	No >>		
B.9.2.2.(c)(8)	(c)(8) Compatible with existing software; and	Yes>>	No >>		
B.9.2.2.(c)(9)	(c)(9) Register Renaming.	Yes>>	No >>		

General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.2. MICROCOMPUTERS -	CLIN 0004				
SERVERS (Dual)	CLIN 0004				
	At a minimum, all servers provided shall include, but not be limited to, the following components:				
B.9.2.1.a.	a. minimum 128MB RAM, system expandable to a mimimum 512MB, on the motherboard;	Yes>>	No >>		
B.9.2.1.b.	b. minimum 4.0GB formatted and non-compressed hard disk drive.	Yes>>	No >>		
B.9.2.1.c.	c. internal CD-ROM, minimum 20x speed;	Yes>>	No >>		
B.9.2.1.d.	d. 512KB cache memory, per microprocessor;	Yes>>	No >>		
B.9.2.1.e.	e. internal 90mm (3.5") High Density Floppy Disk Drive;	Yes>>	No >>		
B.9.2.1.f.	f. 32 Bit SVGA card with minimum 2MB RAM. If integrated on motherboard, must be capable of being disabled and include instructions for disabling; local-bus video compatible, 1024 x 768 resolution, 64K color;	Yes>>	No >>		
B.9.2.1.g	g. plus an additional four available drive bays for four orderable hard disk drives and two bays for additional orderable internal Storage Devices (e.g., PCMCIA Device, Tape Back-Up) for a minimum of 9 system bays;	Yes>>	No >>		
B.9.2.1.h.	h. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1, 2, 3, or 4;	Yes>>	No >>		
B.9.2.1.i.	i. one parallel port (bidirectional);	Yes>>	No >>		
B.9.2.1.j.	 j. QWERTY non-membrane keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.); 	Yes>>	No >>		
B.9.2.1.k.	 k. mouse (not to be connected to the required serial interface described above); 	Yes>>	No >>		
B.9.2.1.I.	I. mouse pad;	Yes>>	No >>		
B.9.2.1.m.	m. at least 3 free expansion slots, 2 of which must be 32-bit (minimum) expansion slots; and	Yes>>	No >>		
B.9.2.1.n.	n. documentation, connection, and installation instructions.	Yes>>	No >>		
	Categories of Servers				
B.9.2.2(b)	(b) One server provided shall be, at a minimum, a dual microprocessor Pentium II 233 MHz or equivalent system, and include two microprocessors.	Yes>>	No >>		
B.9.2.2.(c)	(c) A processor equivalent to the Pentium II shall include the following, at a minimum:				
B.9.2.2.(c)(1)	(c)(1) 32K L1 cache;	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.2.2.(c)(2)	(c)(2) MMX technology;	Yes>>	No >>		
B.9.2.2.(c)(3)	(c)(3) Floating Point Unit;	Yes>>	No >>		
B.9.2.2.(c)(4)	(c)(4) Out of Order Execution;	Yes>>	No >>		
B.9.2.2.(c)(5)	(c)(5) Superscalar Architecture;	Yes>>	No >>		
B.9.2.2.(c)(6)	(c)(6) Speculative Execution;	Yes>>	No >>		
B.9.2.2.(c)(7)	(c)(7) 64-bit bus width;	Yes>>	No >>		
B.9.2.2.(c)(8)	(c)(8) Compatible with existing software; and	Yes>>	No >>		
B.9.2.2.(c)(9)	(c)(9) Register Renaming.	Yes>>	No >>		

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General Requirements Matrix *						
10/00/07						
10/23/97			1			
RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9.3. MICROCOMPUTERS - (NOTEBOOKS)	CLIN 0005					
	At a minimum, all notebooks provided shall include, but not be limited to, the following components:					
B.9.3.1.a.	a. 32MB RAM, expandable to a minimum 72MB RAM, on the motherboard;	Yes>>		No >>		
B.9.3.1.b.	b. 32KB internal and 256KB external cache memory;	Yes>>		No >>		
B.9.3.1.c.	c. minimum 2.1GB formatted (non-compressed) hard disk drive;	Yes>>		No >>		
B.9.2.1.d.	d. CD-ROM drive, minimum 20x speed;	Yes>>		No >>		
B.9.3.1.e.	e. one PCMCIA Interface Adapter Port - Type III, with dual connectors (support Type I, Type II, and Type III devices - this includes Series 1 and Series 2 memory cards and Type II I/O cards such as modems and LAN cards), to support all PCMCIA 2.1 I/O cards and hard disks, with driver software, socket service and card services;	Yes>>		No >>		
B.9.3.1.f.	f. fax/modem device (internal or PCMCIA), at a minimum True V.34 transmission at 33.6Kbps, and V.42bis/MNP 5 data compression;	Yes>>		No >>		
B.9.3.1.g.	g. 3.5" High Density Floppy Disk Drive;	Yes>>		No >>		
B.9.3.1.h.	 h. integrated non-membrane QWERTY keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.); 	Yes>>		No >>		
B.9.3.1.i.	 i. integrated pointing device (not to be connected to the required serial interface); 	Yes>>		No >>		
B.9.3.1.j.	 j. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1 or 2; 	Yes>>		No >>		
B.9.3.1.k.	k. one parallel port (bidirectional);	Yes>>		No >>		
B.9.3.1.I.	external keyboard port;	Yes>>		No >>		
B.9.3.1.m.	m. external monitor port (1024 x 768 resolution, with 64K colors) capable of driving orderable SVGA monitors;	Yes>>		No >>		
B.9.3.1.n.	n. save and resume feature;	Yes>>		No >>		
B.9.3.1.o.	 padded carrying case with shoulder strap, capable of carrying this notebook and offered portable printer (including required cables and A/C adapters) in separate compartments. 	Yes>>		No >>		
B.9.3.1.p.	p. A/C adaptor;	Yes>		No >>		
B.9.3.1.q.	g. documentation, connection, and operating instructions; and	Yes>>		No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.3.1.r.	r. not more than 8-1/2 pounds system weight (system weight includes the notebook itself and one battery pack);	Yes>>	No >>		
B.9.3.2.	Categories of Notebooks				
B.9.3.2. B.9.3.2.(a)	The Contractor shall provide categories of notebooks (separate CLINs) One notebook proposed shall provide a minimum 233 MHz MMX Pentium or equivalent with a 13.1" TFT 1024 x 768 screen w/64K color, and 3 hour battery life.	Yes>>	No >>		
		Yes>>			

General Requirements Matrix *					
40/02/07					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.3. MICROCOMPUTERS -	CLIN 0006				
NOTEBOOKS)	CLIN 0000				
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	At a minimum, all notebooks provided shall include, but not be limited to, the following components:				
B.9.3.1.a.	a. 32MB RAM, expandable to a minimum 72MB RAM, on the motherboard;	Yes>>	No >>		
B.9.3.1.b.	b. 32KB internal and 256KB external cache memory;	Yes>>	No >>		
B.9.3.1.c.	c. minimum 2.1GB formatted (non-compressed) hard disk drive;	Yes>>	No >>		
B.9.2.1.d.	d. CD-ROM drive, minimum 20x speed;	Yes>>	No >>		
B.9.3.1.e.	e. one PCMCIA Interface Adapter Port - Type III, with dual connectors (support Type I, Type II, and Type III devices - this includes Series 1 and Series 2 memory cards and Type II I/O cards such as modems and LAN cards), to support all PCMCIA 2.1 I/O cards and hard disks, with driver software, socket service and card services;	Yes>>	No >>		
B.9.3.1.f.	f. fax/modem device (internal or PCMCIA), at a minimum True V.34 transmission at 33.6Kbps, and V.42bis/MNP 5 data compression;	Yes>>	No >>		
B.9.3.1.g.	g. 3.5" High Density Floppy Disk Drive;	Yes>>	No >>		
B.9.3.1.h.	 h. integrated non-membrane QWERTY keyboard (a non-membrane keyboard is one in which the keys are not part of a continuous surface. Each key is separate and has an independent key cap.); 	Yes>>	No >>		
B.9.3.1.i.	 i. integrated pointing device (not to be connected to the required serial interface); 	Yes>>	No >>		
B.9.3.1.j.	j. one RS-232 serial interface with independent communication. Must support 16550 Universal Asynchronous Receiving and Transmission (UART), independently addressable as COM 1 or 2;	Yes>>	No >>		
B.9.3.1.k.	k. one parallel port (bidirectional);	Yes>>	No >>		
B.9.3.1.I.	external keyboard port;	Yes>>	No >>		
B.9.3.1.m.	 m. external monitor port (1024 x 768 resolution, with 64K colors) capable of driving orderable SVGA monitors; 	Yes>>	No >>		
B.9.3.1.n.	n. save and resume feature;	Yes>>	No >>		
B.9.3.1.o.	 padded carrying case with shoulder strap, capable of carrying this notebook and offered portable printer (including required cables and A/C adapters) in separate compartments. 	Yes>>	No >>		
B.9.3.1.p.	p. A/C adaptor;	Yes>	No >>		
B.9.3.1.q.	g. documentation, connection, and operating instructions; and	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.3.1.r.	r. not more than 8-1/2 pounds system weight (system weight includes the notebook itself and one battery pack);	Yes>>	No >>		
B.9.3.2. B.9.3.2.	Categories of Notebooks The Contractor shall provide categories of notebooks (separate CLINs)				
B.9.3.2.(b)	(b) One notebook proposed shall provide a minimum 166MHz MMX Pentium or equivalent, a 12.1" STN (minimum requirement) 800 x 600 screen with 64K color, and 2 hour battery life.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.4. RAM UPGRADES - ALL MICROCOMPUTER SYSTEMS	CLIN 0007				
	RAM Upgrade - Workstation #1				
B.9.4.1.	The RAM upgrades offered shall be in incremental minimums, such that a motherboard may be populated in a staggered basis, until the maximum RAM requirement is met	Yes>>	No >>		
B.9.4.1.(a)	RAM upgrades offered shall be fully compatible with original RAM configuration	Yes>>	No >>		
B.9.4.1.(b)	RAM upgrades to be factory installed, ordered with the workstation	Yes>>	No >>		
B.9.4.1.(c)	RAM upgrades for the workstations shall be offered in minimum 16MB increments	Yes>>	No >>		

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General Requirements Matrix *						
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10/23/97						
RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9.4. RAM UPGRADES - ALL MICROCOMPUTER SYSTEMS	CLIN 0008					
	RAM Upgrade - Workstation #2					
B.9.4.1.	The RAM upgrades offered shall be in incremental minimums, such that a motherboard may be populated in a staggered basis, until the maximum RAM requirement is met	Yes>>		No >>		
B.9.4.1.(a)	RAM upgrades offered shall be fully compatible with original RAM configuration	Yes>>		No >>		
B.9.4.1.(b)	RAM upgrades to be factory installed, ordered with the workstation	Yes>>		No >>		
B.9.4.1.(c)	RAM upgrades for the workstations shall be offered in minimum 16MB increments;	Yes>>		No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model
TAT Reference	Required William Specializations			TOOM ER TOOL	Number
B.9. RAM UPGRADES - ALL MICROCOMPUTER SYSTEMS	CLIN 0009				
	RAM Upgrade - Server - Single Processor				
B.9.4.1.	The RAM upgrades offered shall be in incremental minimums, such that a motherboard may be populated in a staggered basis, until the maximum RAM requirement is met	Yes>>	No >>		
B.9.4.1.(a)	RAM upgrades offered shall be fully compatible with original RAM configuration	Yes>>	No >>		
B.9.4.1.(b)	RAM upgrades to be factory installed, ordered with the server	Yes>>	No >>		
B.9.4.1.(c)	RAM upgrades for the servers shall be offered in minimum 64MB increments;	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
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B.9. RAM UPGRADES - ALL MICROCOMPUTER SYSTEMS	CLIN 0010				
	RAM Upgrade - Server - Dual Processor				
B.9.4.1.	The RAM upgrades offered shall be in incremental minimums, such that a motherboard may be populated in a staggered basis, until the maximum RAM requirement is met	Yes>>	No >>		
B.9.4.1.(a)	RAM upgrades offered shall be fully compatible with original RAM configuration	Yes>>	No >>		
B.9.4.1.(b)	RAM upgrades to be factory installed, ordered with the server	Yes>>	No >>		
B.9.4.1.(c)	RAM upgrades for the servers shall be offered in minimum 64MB increments;	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9. RAM UPGRADES - ALL MICROCOMPUTER SYSTEMS	CLIN 0011				
B.9.4.2.	RAM Upgrade - Notebook (Active Matrix)	Yes>>	No >>		
B.9.4.2.(a)	RAM upgrades to be factory installed, ordered with the notebook	Yes>>	No >>		
B.9.4.2.(b)	RAM upgrades for the notebooks shall be offered to fully populate 72MB RAM.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9. RAM UPGRADES - ALL MICROCOMPUTER SYSTEMS	CLIN 0012				
B.9.4.2.	RAM Upgrade - Notebook (STN Screen)	Yes>>	No >>		
B.9.4.2.(a)	RAM upgrades to be factory installed, ordered with the notebook	Yes>>	No >>		
B.9.4.2.(b)	RAM upgrades for the notebooks shall be offered to fully populate 72MB RAM.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.5. SVGA COLOR MONITORS (15" color)	CLIN 0013				
	The color monitor shall be compatible for use with the workstations, servers and notebooks offered.	Yes>>	No >>		
	The Contractor shall provideone monitor with a minimum 13.7" diagonal viewing area;	Yes>>	No >>		
	The monitors to be offered shall include, at a minimum:				
B.9.5.a.	a. non-interlaced, non-glare, anti-static, 1024 x 768 resolution, 72 HZ, with .28mm Dot Pitch, SVGA color monitor;	Yes>>	No >>		
B.9.5.b.	 b. front panel controls to adjust contrast, brightness, horizontal size, horizontal position, vertical size, and vertical position; 	Yes>>	No >>		
B.9.5.c.	c. tilt and swivel base;	Yes>>	No >>		
B.9.5.d.	d. all required cabling; and	Yes>>	No >>		
B.9.5.e.	e. documentation, connection, and operating instructions.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.5. SVGA COLOR MONITORS (17" color)	CLIN 0014				
	The color monitor shall be compatible for use with the workstations, servers and notebooks offered.	Yes>>	No >>		
	The Contractor shall provideone monitor with a minimum 15.7" diagonal viewing area;	Yes>>	No >>		
	The monitors to be offered shall include, at a minimum:				
B.9.5.a.	a. non-interlaced, non-glare, anti-static, 1024 x 768 resolution, 72 HZ, with .28mm Dot Pitch, SVGA color monitor;	Yes>>	No >>		
B.9.5.b.	b. front panel controls to adjust contrast, brightness, horizontal size, horizontal position, vertical size, and vertical position;	Yes>>	No >>		
B.9.5.c.	c. tilt and swivel base;	Yes>>	No >>		
B.9.5.d.	d. all required cabling; and	Yes>>	No >>		
B.9.5.e.	e. documentation, connection, and operating instructions.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.5. SVGA COLOR MONITORS (21" color)	CLIN 0015				
	The color monitor shall be compatible for use with the workstations, servers and notebooks offered.	Yes>>	No >>		
	The Contractor shall provideone monitor with a minimum 19" diagonal viewing area;	Yes>>	No >>		
	The monitors to be offered shall include, at a minimum:				
B.9.5.a.	a. non-interlaced, non-glare, anti-static, 1024 x 768 resolution, 72 HZ, with .28mm Dot Pitch, SVGA color monitor;	Yes>>	No >>		
B.9.5.b.	b. front panel controls to adjust contrast, brightness, horizontal size, horizontal position, vertical size, and vertical position;	Yes>>	No >>		
B.9.5.c.	c. tilt and swivel base;	Yes>>	No >>		
B.9.5.d.	d. all required cabling; and	Yes>>	No >>		
B.9.5.e.	e. documentation, connection, and operating instructions.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.6.1. STORAGE DEVICES HARD DRIVES (minimum 2.5GB internal formatted disk storage)	CLIN 0016				
	The storage device is intended for use with, and shall be compatible for use with the workstations offered.	Yes>>	No >>		
	The Contractor shall include:				
B.9.6.	a. all necessary software and hardware including required cabling and brackets;	Yes>>	No >>		
B.9.6.	b. documentation, connection, and operating instructions; and	Yes>>	No >>		
B.9.6.1.	minimum 2.5GB, internal, non-compressed, formatted disk storage space.	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.6.1. STORAGE DEVICES HARD DRIVES (minimum 4.0GB internal formatted disk storage)	CLIN 0017				
	The storage device is intended for use with, and shall be compatible for use with, the workstations offered.	Yes>>	No >>		
	The Contractor shall include:				
B.9.6.	a. all necessary software and hardware including required cabling and brackets;	Yes>>	No >>		
B.9.6.	b. documentation, connection, and operating instructions; and	Yes>>	No >>		
B.9.6.1.	minimum 4.0GB, internal, non-compressed, formatted disk storage space.	Yes>>	No >>		

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General Requirements Matrix *							
10/23/97							
RFP Reference	Required Minimum Specifications					Tech Lit Ref.	Manufacturer Model Number
B.9.6.1. STORAGE DEVICES HARD DRIVES (minimum 9.0GB internal formatted disk storage)	CLIN 0018						
	The storage device is intended for use with, and shall be compatible for use with, the servers offered.	Yes>>		No >>			
	The Contractor shall include:						
B.9.6.	a. all necessary software and hardware including required cabling and brackets;	Yes>>		No >>			
B.9.6.	b. documentation, connection, and operating instructions; and	Yes>>		No >>			
B.9.6.1.	minimum 9.0GB, internal, non-compressed, formatted disk storage space.	Yes>>		No >>			
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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.6.2. STORAGE DEVICES TAPE CARTRIDGE BACK-UP SYSTEM (minimum 1.0GB internal formatted tape storage)	CLIN 0019				
	The tape cartridge back-up system will be used to back-up and restore hard disk drives. This internal tape cartridge back-up system is intended for use with the offered workstations and servers.	Yes>>	No >>		
	The Contractor shall include:				
B.9.6.2.a.	a. all necessary software, hardware, cabling, and brackets;	Yes>>	No >>		
B.9.6.2.b.	b. software and driver;	Yes>>	No >>		
B.9.6.2.c.	c. 3 formatted tape cartridges;	Yes>>	No >>		
B.9.6.2.d.	d. documentation, connection, and operating instructions.; and	Yes>>	No >>		
B.9.6.2.	minimum 1.0GB internal, formatted tape capacity	Yes>>	No >>		

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.6.2. STORAGE DEVICES TAPE CARTRIDGE BACK-UP SYSTEM (minimum 1.0GB external formatted tape storage)	CLIN 0020				
	The external tape cartridge back-up system will be used to back-up and restore hard disk drives. The external tape cartridge back-up system is intended for use with the offered workstations, servers and notebooks.	Yes>>	No >>		
	The Contractor shall include:				
B.9.6.2.a.	a. all necessary software, hardware, cabling, and brackets;	Yes>>	No >>		
B.9.6.2.b.	b. software and driver;	Yes>>	No >>		
B.9.6.2.c.	c. 3 formatted tape cartridges;	Yes>>	No >>		
B.9.6.2.d.	d. documentation, connection, and operating instructions; and	Yes>>	No >>		
B.9.6.2.	minimum 1.0GB external, formatted tape capacity.	Yes>>	No >>		

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nimum Specifications					Tech Lit Ref.	Manufacturer Model Number
nternal tape cartridge back-up system is intended for use with the	Yes>>		No >>			
tor shall include:						
sary software, hardware, cabling, and brackets;	Yes>>		No >>			
and driver;	Yes>>		No >>			
ed tape cartridges;	Yes>>		No >>			
ation, connection, and operating instructions; and	Yes>>		No >>			
GB internal, formatted tape capacity.	Yes>>		No >>		_	
i	tridge back-up system will be used to back-up and restore hard disk internal tape cartridge back-up system is intended for use with the stations and servers. tor shall include: sary software, hardware, cabling, and brackets; and driver; and driver; and tape cartridges; tation, connection, and operating instructions; and	internal tape cartridge back-up system is intended for use with the stations and servers. tor shall include: sary software, hardware, cabling, and brackets; and driver; Yes>> ed tape cartridges; Yes>> tation, connection, and operating instructions; and Yes>>	internal tape cartridge back-up system is intended for use with the stations and servers. tor shall include: sary software, hardware, cabling, and brackets; and driver; Yes>> ed tape cartridges; Yes>> tation, connection, and operating instructions; and Yes>>	internal tape cartridge back-up system is intended for use with the stations and servers. tor shall include: sary software, hardware, cabling, and brackets; and driver; Yes>> No >> ed tape cartridges; Yes>> No >> tation, connection, and operating instructions; and Yes>> No >>	internal tape cartridge back-up system is intended for use with the stations and servers. tor shall include: sary software, hardware, cabling, and brackets; and driver; Yes>> No >> and driver; Yes>> No >> and tape cartridges; Yes>> No >> tation, connection, and operating instructions; and Yes>> No >>	internal tape cartridge back-up system is intended for use with the stations and servers. tor shall include: sary software, hardware, cabling, and brackets; and driver; Yes>> No >> and driver; Yes>> No >> and tape cartridges; Yes>> No >> tation, connection, and operating instructions; and Yes>> No >>

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
RESERVED	CLIN 0022				

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
RESERVED	CLIN 0023				

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
RESERVED	CLIN 0024				

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General Requirements Matrix *					
10/23/97					
RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.6.4. STORAGE DEVICES CD-READER AND RECORDER SYSTEMS (internal)	CLIN 0025				
	The internal CD-Reader and Recorder system will be used with the workstations and servers offered. The internal CD-Reader and Recorder systems are not required to work with the provided notebooks.	Yes>>	No >>		
	The CD-Reader and Recorder Systems offered shall:				
B.9.6.4.a.	a. include 1MB internal buffer;	Yes>>	No >>		
B.9.6.4.b.	b. be compatible with existing CD audio players and CD-ROMs;	Yes>>	No >>		
B.9.6.4.c.	c. include all necessary software, hardware, cabling, and brackets;	Yes>>	No >>		
B.9.6.4.d.	d. include software and driver;	Yes>>	No >>		
B.9.6.4.e.	e. include 3 platters; and	Yes>>	No >>		
B.9.6.4.f.	f. documentation, connection, and operating instructions.	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.6.4. STORAGE DEVICES CD-READER AND RECORDER SYSTEMS (external)	CLIN 0026				
	The external CD-Reader and Recorder system will be used with the workstations and servers provided. The external CD-Reader and Recorder systems are not required to work with the offered notebooks.	Yes>>	No >>		
	The CD-Reader and Recorder Systems offered shall:				
B.9.6.4.a.	a. include 1MB internal buffer;	Yes>>	No >>		
B.9.6.4.b	b. be compatible with existing CD audio players and CD-ROMs;	Yes>>	No >>		
B.9.6.4.c.	c. include all necessary software, hardware, cabling, and brackets;	Yes>>	No >>		
B.9.6.4.d.	d. include software and driver;	Yes>>	No >>		
B.9.6.4.e.	e. include 3 platters; and	Yes>>	No >>		
B.9.6.4.f.	f. documentation, connection, and operating instructions.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.1. PERIPHERAL DEVICES PCMCIA PORT/SOCKET	CLIN 0027				
B.9.7.1.	The PCMCIA Type III adapter card port/socket offered shall, at a minimum, meet the PCMCIA 2.1 Committee standard (68-pin).	Yes>>	No >>		
B.9.7.1.	The port/socket shall be compatible with the workstations and servers offered. The port/socket is not required to work with the offered notebooks.	Yes>>	No >>		
B.9.7.1.	This product shall have dual connectors, support one Type I and one Type II card simultaneously, or one Type III card, (support Type I, Type II and Type III devices - this includes Series 1 and Series 2 memory cards and Type II I/O cards such as modems and LAN cards), to support all PCMCIA 2.1 I/O cards and hard disks, with driver software, socket service and card services.	Yes>>	No >>		
B.9.7.1.	All required power shall be drawn through the PCMCIA port/socket.	Yes>>	No >>		
B.9.7.1.	As applicable, the adaptor port/socket shall allow for the insertion and removal "Hot-Swap" of the adaptor card while system is powered-up, and appropriate system addressing.	Yes>>	No >>		
B.9.7.1.	All software, drivers, cables, and brackets shall be included.	Yes>>	No >>		
B.9.7.1.	The Contractor shall provide one internal PCMCIA Port/Socket, to be housed in a bay on the front of the workstation or server, to be factory or customer installed.	Yes>>	No >>		
B.9.7.1.	Documentation and installation instructions to be included.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.2. PERIPHERAL DEVICES FAX/MODEM (internal)	CLIN 0028				
	The fax/modem shall be compatible with the workstations, servers and notebooks offered. It is not required that the internal fax/modem work with the notebooks offered.	Yes>>	No >>		
	The product offered shall include, at a minimum:				
B.9.7.2.a.	a. fax/modem device, at a minimum True V.34 transmission at 33.6Kbps, and V.42bis/MNP 5 data compression;	Yes>>	No >>		
B.9.7.2.b.	 b. modem speed: minimum 33.6Kbps (compatible with lower transmit/receive rates); 	Yes>>	No >>		
B.9.7.2.c.	c. RJ-11 connectors for line and phone;	Yes>>	No >>		
B.9.7.2.d.	d. audio speaker with software volume control;	Yes>>	No >>		
B.9.7.2.e.	e. communication software for FAX and modem operation;	Yes>>	No >>		
B.9.7.2.f.	f. required cabling, including phone cable; and	Yes>>	No >>		
B.9.7.2.g.	g. documentation, connection, and operating instructions.	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.2. PERIPHERAL DEVICES FAX/MODEM (external)	CLIN 0029				
	The fax/modem shall be compatible with the workstations, servers and notebooks offered. The external fax/modem shall work with the notebooks offered.	Yes>>	No >>		
	The product offered shall include, at a minimum:				
B.9.7.2.a.	a. fax/modem device, at a minimum True V.34 transmission at 33.6Kbps, and V.42bis/MNP 5 data compression;	Yes>>	No >>		
B.9.7.2.b.	b. modem speed: minimum 33.6Kbps (compatible with lower transmit/receive rates);	Yes>>	No >>		
B.9.7.2.c.	c. RJ-11 connectors for line and phone;	Yes>>	No >>		
B.9.7.2.d.	d. audio speaker with software volume control;	Yes>>	No >>		
B.9.7.2.e.	e. communication software for FAX and modem operation;	Yes>>	No >>		
B.9.7.2.f.	f. required cabling, including phone cable; and	Yes>>	No >>		
B.9.7.2.g.	g. documentation, connection, and operating instructions.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9.7.2. PERIPHERAL DEVICES FAX/MODEM (PCMCIA)	CLIN 0030					
	The PCMCIA fax/modem shall be compatible with the workstations, servers and notebooks offered.	Yes>>	No >>			
	The PCMCIA fax/modem offered shall be compatible with the notebooks and PCMCIA Port/Socket offered.	Yes>>	No >>			
	The product offered shall include, at a minimum:					
B.9.7.2.a.	a. fax/modem device, at a minimum True V.34 transmission at 33.6Kbps, and V.42bis/MNP 5 data compression;	Yes>>	No >>			
B.9.7.2.b.	b. modem speed: minimum 33.6Kbps (compatible with lower transmit/receive rates);	Yes>>	No >>			
B.9.7.2.c.	c. RJ-11 connector for line;	Yes>>	No >>			
B.9.7.2.d.	d. audio speaker with software volume control (PCMCIA card can use external speaker to generate sound);	Yes>>	No >>			
B.9.7.2.e.	e. communication software for FAX and modem operation;	Yes>>	No >>			
B.9.7.2.f.	f. required cabling, including phone cable; and	Yes>>	No >>			
B.9.7.2.g.	g. documentation, connection, and operating instructions.	Yes>>	No >>	•		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.3. PERIPHERAL DEVICES I/O INTERFACE CARD	CLIN 0031				
	The I/O interface card offered shall be compatible for use with the workstations and servers offered.	Yes>>	No >>		
	The I/O interface card shall also be compatible with the external fax/modem offered, and shall not impede full data transmission speed.	Yes>>	No >>		
	The product offered shall:				
B.9.7.3.a.	a. be, minimum, one RS-232 serial interface with independent communication, must support 16550 Universal Asynchronous Receiving and Transmission (UART), and be independently addressable as COM 1, 2, 3, or 4;	Yes>>	No >>		
B.9.7.3.b.	b. include software and drivers; and	Yes>>	No >>		
B.9.7.3.c.	c. documentation, connection, and operating instructions.	Yes>>	No >>		
	The Contractor shall propose one I/O interface card.	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model
					Number
B.9.7.4. PERIPHERAL DEVICES SURGE AND SPIKE PROTECTOR	CLIN 0032				
	The surge and spike protector shall have, at a minimum, 4 power outlets and one telephone line surge and spike protection.	Yes>>	No >>		
	The surge protector must include one or more RJ-11 jacks to surge and spike protect the modem connection to the telephone line), EMI/RFI noise protection, low voltage indicator, visual power-on indicator.	Yes>>	No >>		
	The Contractor shall propose one surge and spike protector.	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (10BASET ETHERNET CAPABILITIES/ CONNECTIVITY16-bit)	CLIN 0033				
	The contractor shall provide for network connectivity.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract.	Yes>>	No >>		
	The products provided shall include:				
B.9.7.5.a.	a. support for IEEE 802.3 10BaseT unshielded twisted pair (UTP) networks;	Yes>>	No >>		
B.9.7.5.b.	b. a minimum throughput of 10 Mbps at half-duplex; and	Yes>>	No >>		
B.9.7.5.c.	c. documentation, connection, and operating instructions.	Yes>>	No >>		
	16-bit card 10BaseT card	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (10BASE2 ETHERNET CAPABILITIES/ CONNECTIVITY16-bit)	CLIN 0034				
	The contractor shall provide for network connectivity.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract.	Yes>>	No >>		
	The products provided shall include:				
B.9.7.5.a.	a. support for 10Base2 thin coaxial Ethernet networks;	Yes>>	No >>		
B.9.7.5.b.	b. a minimum throughput of 2 Mbps; and	Yes>>	No >>		
B.9.7.5.c.	c. documentation, connection, and operating instructions.	Yes>>	No >>		
_	16-bit 10Base2 Ethernet card	Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (TOKEN RING CAPABILITIES/ CONNECTIVITY)	CLIN 0035				
	The contractor shall provide for network connectivity.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract.	Yes>>	No >>		
	The products provided shall include:				
B.9.7.5.a.	a. support for both shielded twisted pair (STP) and unshielded twisted pair (UTP) Token-Ring and IEEE 802.5 networks;	Yes>>	No >>		
B.9.7.5.b.	b. 16 Mbps or 4 Mbps software-selectable ring speed;	Yes>>	No >>		
B.9.7.5.c.	c. 9-pin D connector;	Yes>>	No >>		
B.9.7.5.d.	d. RJ-45 connector; and	Yes>>	No >>		
B.9.7.5.e.	e. documentation and operating instructions.	Yes>>	No >>		
	16-bit Token Ring card	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (10BASET ETHERNET CAPABILITIES/ CONNECTIVITY32-bit)	CLIN 0036				
	The contractor shall provide for network connectivity.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract.	Yes>>	No >>		
	The products provided shall include:				
B.9.7.5.a.	a. support for IEEE 802.3 10BaseT unshielded twisted pair (UTP) networks;	Yes>>	No >>		
B.9.7.5.b.	b. a minimum throughput of 10 Mbps at half-duplex; and	Yes>>	No >>		
B.9.7.5.c.	c. documentation, connection, and operating instructions.	Yes>>	No >>		
	32-bit 10BaseT card	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (10BASE2 ETHERNET CAPABILITIES/ CONNECTIVITY32-bit)	CLIN 0037				
	The contractor shall provide for network connectivity.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract.	Yes>>	No >>		
	The products provided shall include:				
B.9.7.5.a.	a. support for 10Base2 thin coaxial Ethernet networks;	Yes>>	No >>		
B.9.7.5.b.	b. a minimum throughput of 2 Mbps; and	Yes>>	No >>		
B.9.7.5.c.	c. documentation, connection, and operating instructions.	Yes>>	No >>		
	32-bit 10Base2 card	Yes>>	No >>		

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General Requirements Matrix *					
General Requirements Matrix					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (10BASET ETHERNET CAPABILITIES/ CONNECTIVITYPCMCIA)	CLIN 0038				
	The contractor shall provide for network connectivity. Notebook connectivity can be through the use of a PCMCIA device.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract. The products provided shall include:	Yes>>	No >>		
B.9.7.5.a.	a. support for IEEE 802.3 10BaseT unshielded twisted pair (UTP) networks;	Yes>>	No >>		
B.9.7.5.b.	b. a minimum throughput of 10 Mbps at half-duplex; and	Yes>>	No >>		
B.9.7.5.c.	c. documentation, connection, and operating instructions. 10BaseT PCMCIA	Yes>> Yes>>	No >>		

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General Requirements Matrix *					
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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.7.5. PERIPHERAL DEVICES NETWORK INTERFACE (10BASE2 ETHERNET CAPABILITIES/ CONNECTIVITYPCMCIA)	CLIN 0039				
	The contractor shall provide for network connectivity. Notebook connectivity can be through the use of a PCMCIA device.	Yes>>	No >>		
	Network cards shall be compatible with products provided in this contract.	Yes>>	No >>		
	The products provided shall include:				
B.9.7.5.a.	a. support for 10Base2 thin coaxial Ethernet networks;	Yes>>	No >>		
B.9.7.5.b.	b. a minimum throughput of 2 Mbps; and	Yes>>	No >>		
B.9.7.5.c.	c. documentation, connection, and operating instructions.	Yes>>	No >>		
	10Base2 PCMCIA	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.8.1. PRINTERS	CLIN 0040			<u> </u>	
PORTABLE PRINTER	02				
	The portable printer will be used in an office/home environment.	Yes>>	No >>		
	The portable printer will primarily be used in conjunction with the notebooks and software offered, as well as existing software, per Section B.6.	Yes>>	No >>		
	The portable printer is compatible with the offered workstations, servers, notebooks and software offered.	Yes>>	No >>		
	The product offered shall:				
B.9.8.1.a.	a. have near letter quality output;	Yes>>	No >>		
B.9.8.1.b.	b. have black and white printing;	Yes>>	No >>		
B.9.8.1.c.	 c. have a battery with the capability to print thirty (30) continuous pages of standard, single-spaced, full-page text when the battery is fully-charged; 	Yes>>	No >>		
B.9.8.1.d.	 d. include start up supplies (excluding paper) sufficient to print 1,000 pages of standard text (5% page coverage). 	Yes>>	No >>		
B.9.8.1.e.	e. not weigh more than 5.7 pounds with battery;	Yes>>	No >>		
B.9.8.1.f.	f. have a parallel interface with a 6-foot parallel cable;	Yes>>	No >>		
B.9.8.1.g.	g. have an A/C adaptor capable of charging the battery, while in use;	Yes>>	No >>		
B.9.8.1.h.	h. be a plain paper printer; and	Yes>>	No >>		
B.9.8.1.i.	I. include documentation, connection, and operating instructions.	Yes>>	No >>		
	The Contractor shall propose one portable printer.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.8.2. PRINTERS INK JET PRINTER	CLIN 0041				
	The ink jet printer will be used in an office/home environment.	Yes>>	No >>		
	The ink jet printer is compatible with the offered workstations, servers, notebooks and software.	Yes>>	No >>		
	The ink jet printer shall print in both black and white, and color mode.	Yes>>	No >>		
	The product offered shall:				
B.9.8.2.a.	a. print 3 pages per minute print speed, in black and white print mode;	Yes>>	No >>		
B.9.8.2.b.	b. include color printing;	Yes>>	No >>		
B.9.8.2.c.	c. have 600 x 300 dots per inch (dpi) print resolution;	Yes>>	No >>		
B.9.8.2.d.	d. have, at a minimum, 12 scalable fonts;	Yes>>	No >>		
B.9.8.2.e.	e. include start up supplies (excluding paper) sufficient to print 2,000 pages of standard text (5% page coverage), with a minimum 1,000 pages in color and 1,000 pages in black and white;	Yes>>	No >>		
B.9.8.2.f.	f. include a parallel interface with a 15-foot parallel cable; and	Yes>>	No >>		
B.9.8.2.g.	g. include documentation, connection, and operating instructions.	Yes>>	No >>		
	The Contractor shall propose one ink-jet printer.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref	f. Manufacturer Model Number
B.9.8.3. PRINTERS BASE-CAPACITY LASER PRINTER	CLIN 0042				
	The base capacity laser printer offered will be used in an office/home environment.	Yes>>	No >>		
	The base-capacity laser printer will primarily be used for a single/double workstation printing volume for text and graphics.	Yes>>	No >>		
	The base-capacity laser printer is capable of printing letter and legal size pages and transparencies.	Yes>>	No >>		
	The base-capacity laser printer does work with all offered workstations, servers, notebooks, and software including network software.	Yes>>	No >>		
	The product offered shall include:				
B.9.8.3.a.	a. 4MB RAM or equivalent processing capability ("equivalent processing capability" is included because some printer models utilize a memory enhancement/data compression feature, which reduces the amount of printer RAM required to process 4MB of data);	Yes>>	No >>		
B.9.8.3.b.	b. 6 ppm print speed;	Yes>>	No >>		
B.9.8.3.c.	c. black and white printing;	Yes>>	No >>		
B.9.8.3.d.	d. resolution density of 600 x 600 dpi, printer intensity/shading/ grey-scaling shall include smooth transitions between them with no banding;	Yes>>	No >>		
B.9.8.3.e.	e. internal fonts scalable from .25 to 1,000 points;	Yes>>	No >>		
B.9.8.3.f.	f. true Level 2 Adobe PostScript printing (or equivalent);	Yes>>	No >>		
B.9.8.3.g.	g. HP Laserjet IV (or later) emulation;	Yes>>	No >>		
B.9.8.3.h.	h. parallel interface with a 15-foot parallel cable;	Yes>>	No >>		
B.9.8.3.i.	start up supplies (excluding paper) sufficient to print 10,000 pages of standard text (5% page coverage);	Yes>>	No >>		
B.9.8.3.j	j. documentation, connection, and operating instructions.	Yes>>	No >>		
	The Contractor shall propose one base-capacity printer.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9.8.4. PRINTERS HIGH-CAPACITY LASER PRINTER	CLIN 0043					
	The high-capacity laser printer offered will be used in an office/home environment.	Yes>>	No >>			
	The high-capacity laser printer will primarily be used for network application and large printing volumes for text and graphics.	Yes>>	No >>			
	The high-capacity laser printer is capable of printing regular and legal size pages and transparencies.	Yes>>	No >>			
	The high-capacity laser printer is capable of being connected to an offered network as a separate node.	Yes>>	No >>			
	The high-capacity laser printer does work with all offered workstations, servers, notebooks, network device offered and software, including network software.	Yes>>	No >>			
	The product offered shall include:					
B.9.8.4.a.	a. minimum 12MB RAM or equivalent processing capability ("equivalent processing capability" is included because some printer models utilize a memory enhancement/data compression feature, which reduces the amount of printer RAM required to process 12MB of data);	Yes>>	No >>			
B.9.8.4.b.	b. 16 ppm simplex (single-sided) print speed;	Yes>>	No >>			
B.9.8.4.c.	c. black and white printing;	Yes>>	No >>			
B.9.8.4.d.	d. resolution/density of 600 x 600 dpi, printer intensity/shading/ grey-scaling shall include smooth transitions between them with no banding;	Yes>>	No >>			
B.9.8.4.e.	e. true, Level 2 Adobe PostScript (or equivalent) printing (internal without use of additional cartridge), Printer Control Language 5, (PostScript and PCL5 switchable either via software or external printer control);	Yes>>	No >>			
B.9.8.4.f.	f. HP Laserjet IV (or later) emulation;	Yes>>	No >>			
B.9.8.4.g.	g. 1,000 sheet capacity. If multiple trays are used, system shall automatically detect paper out condition and go to next tray;	Yes>>	No >>			
B.9.8.4.h.	h. capability for network connectivity as separate node;	Yes>>	No >>			
B.9.8.4.i.	parallel interface with a 15-foot parallel cable;	Yes>>	No >>			
B.9.8.4.j.	 j. start up supplies (excluding paper) sufficient to print 10,000 pages of standard text (5% page coverage); 	Yes>>	No >>			
B.9.8.4.k.	k. documentation, connection, and operating instructions.	Yes>>	No >>			
	The Contractor shall propose one high-capacity laser printer.	Yes>>	No >>			

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
B.9.8.5. PRINTERS HIGH-CAPACITY LASER PRINTER NETWORK INTERFACE	CLIN 0044				
NETWORK INTERVACE	The network interface offered works with the High-Capacity Laser Printer.	Yes>>	No >>		
	Use of this interface offered shall make the High-Capacity Laser Printer capable of being connected to the offered networks as a separate node.	Yes>>	No >>		
	The connectivity can be through the use of an internal network card inserted into the printer, or as an external "intelligent" network interface device (i.e., print jobs can be controlled at the server).	Yes>>	No >>		
	The products offered shall include:				
B.9.8.5.a.	a. combined support for 10BaseT and 10Base2 Ethernet capabilities/connectivity	Yes>>	No >>		
B.9.8.5.b.	b. support for IEEE 802.3 10BaseT unshielded twisted pair (UTP) networks;	Yes>>	No >>		
B.9.8.5.c.	c. support for 10Base2 thin coaxial Ethernet networks;	Yes>>	No >>		
B.9.8.5.d.	d. a minimum throughput of 10 Mbps at half-duplex for the 10BaseT, and 2 Mbps for the 10Base2; and	Yes>>	No >>		
B.9.8.5.e.	e. documentation, connection, and operating instructions.	Yes>>	No >>		
	The Contractor shall propose one device to meet the printer network interface card requirements.	Yes>>	No >>		

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RFP Reference	Required Minimum Specifications			Tech Lit Ref.	Manufacturer Model Number
DOO DOWED MANAGEMENT	0.0000				
B.9.9. POWER MANAGEMENT DEVICES	CLIN 0045				
	Uninterruptable Power Supply (UPS)				
	The primary purpose of the UPS is to provide power to orderable products when the commercial power fails or becomes unstable.	Yes>>	No >>		
	The UPS shall provide support for the servers provided, for 20 minutes without interruption.	Yes>>	No >>		
	When the UPS is attached to a LAN file server and UPS monitoring is implemented, the UPS shall indicate loss of power to the file server and any workstations attached by displaying an on-screen warning.	Yes>>	No >>		
	The UPS shall automatically power down the server in an orderly manner via preset commands.	Yes>>	No >>		
	The product offered shall include:				
B.9.9.a.	a. remote shut-down capability;	Yes>>	No >>		
B.9.9.b.	b. software to operate UPS with network software provided on this contract;	Yes>>	No >>		
B.9.9.c.	c. switching takes place without disruption of power;	Yes>>	No >>		
B.9.9.d.	d. lightning, surge, and spike protection;	Yes>>	No >>		
B.9.9.e.	e. EMI/RFI noise filtering;	Yes>>	No >>		
B.9.9.f.	f. status indicator(s);	Yes>>	No >>		
B.9.9.g.	g. audible alarm;	Yes>>	No >>		
B.9.9.h.	h. display voltage output and percentage of capacity used; and	Yes>>	No >>		
B.9.9.i.	documentation, connection, and operating instructions.	Yes>>	No >>		
	The Contractor shall propose one UPS product, including any necessary software and drivers to meet this requirement.	Yes>>	No >>		

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General Requirements Matrix *						
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RFP Reference	Required Minimum Specifications				Tech Lit Ref.	Manufacturer Model Number
B.9.10. GOVERNMENT-FURNISHED PROPERTY (GFP) CARD INSTALLATION - (FOR CUSTOMS ONLY)	CLIN 0046					
·	At times, Government Furnished Property (GFP) may need to be installed in the workstations and servers.				Not Applicable (N/A)	
	This GFP refers to internally installed circuit cards such as, but not limited to the J1 Systems AdaptCoax Adaptor & ElitePlus Emulation Software, SMC Elite16T Adaptor & Setup Software, Proteon P1392 Token Ring Adaptor/Software, and other network cards and secure cards.					
	The cards will be installed prior to workstation and server delivery to the Government.	Yes>>		No >>	N/A	
	GFP will be provided at a site agreed to by the contractor and Government.	Yes>>		No >>	N/A	
	Installation of GFP shall not delay the delivery requirements, unless the delay is caused by the Government.	Yes>>		No >>	N/A	
	The Contractor shall provide at a single flat labor rate for installation and configuration of such GFP.	Yes>>		No >>	N/A	

Application Software				
10/23/97				
RFP Reference	Deguired Application Coffuge			
RFF Reference	Required Application Software			
B.9.11. SOFTWARE				
B.9.11. SOFTWARE				N A II I (N/A)
	All software (media, license and documentation) shall be provided based on the commercial practices of the manufacturer.			Not Applicable (N/A)
	All software, when ordered with a workstation, server, or notebook, shall be installed and configured prior to delivery in its respective directory/directories, by the Contractor, unless noted otherwise, on the delivery order.	Yes>>	No >>	N/A
	Network operating system software shall be loaded to the default level.	Yes>>	No >>	N/A
	Throughout the software product life, on the contract, the most current version, at time of delivery order, will be provided unless specified otherwise by the Government.	Yes>>	No >>	N/A
	Initially, software will be provided for single user, and include media, license and documentation.	Yes>>	No >>	N/A
	Documentation shall be provided based on the commercial practice of the manufacturer.	Yes>>	No >>	N/A
	This will not limit how software will be required by the Government, to meet future requirements.	Yes>>	No >>	N/A
	Software offered shall be the most current version available from the manufacturer, at time of proposal, unless the Government states otherwise.	Yes>>	No >>	N/A
	In addition to the specific software products being required, the Contractor shall also include non-specific brand name products. The following conditions apply to the non-specific software being requested:	Yes>>	No >>	N/A
B.9.11.a.	 a. The products offered must fit within the appropriate category provided (i.e., operating system, word processing, spreadsheet, etc.) 	Yes>>	No >>	N/A
b.9.11.b.	The offered products may not include software that is commonly referred to as "share-ware," "free-ware," or "public domain software." These terms are defined as follows:	Yes>>	No >>	N/A
	Shareware: Software that is distributed on a trial basis through electronic bulletin board systems, on-line services, and user groups. Shareware is distributed on the honor system, and if a user decides to keep and use it, then that user must register and pay for it.			
	Freeware: Software distributed without charge. Ownership is retained by the developer who has control over its redistribution, including the ability to change the next release of freeware to payware.			
	Public Domain Software: Software in which ownership has been relinquished to the public at large.			

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Application Software				
10/23/97				
B.9.11. SOFTWARE				
RFP Reference	Required Application Software			Proposed Version #
B.9.11.	The Contractor shall propose:			
B.9.11.a. (CLIN 0047)	(a) Corel Word Perfect	Yes>>	No >>	
B.9.11.b. (CLIN 0048)	(b) Microsoft Word	Yes>>	No >>	
B.9.11.c. (CLIN 0049)	(c) Non-Specific Word Processing	Yes>>	No >>	
B.9.11.d. (CLIN 0050)	(d) Lotus 1-2-3	Yes>>	No >>	
B.9.11.e. (CLIN 0051)	(e) Microsoft Excel	Yes>>	No >>	
B.9.11.f. (CLIN 0052)	(f) Non-Specific Spreadsheet	Yes>>	No >>	
B.9.11.g. (CLIN 0053)	(g) Microsoft Office Pro	Yes>>	No >>	
B.9.11.h. (CLIN 0054)	(h) Non-Specific Software Suite	Yes>>	No >>	
B.9.11.I. (CLIN 0055)	(I) Non-Specific Software Suite	Yes>>	No >>	
B.9.11.j. (CLIN 0056)	(j) Microsoft Windows 95	Yes>>	No >>	
B.9.11.k. (CLIN 0057)	(k) Microsoft Windows NT - Workstation	Yes>>	No >>	
B.9.11.I. (CLIN 0058)	(I) Microsoft Windows NT - Server (50 License/Userinclude media, license and documentation)	Yes>>	No >>	
B.9.11.m. (CLIN 0059)	(m) Microsoft Back Office Client Access	Yes>>	No >>	
B.9.11.n. (CLIN 0060)	(n) Microsoft Exchange Client Access	Yes>>	No >>	
B.9.11.o. (CLIN 0061)	(o) Microsoft Windows NT Client Access	Yes>>	No >>	
B.9.11.p. (CLIN 0062)	(p) Microsoft Systems Management Server Client Access	Yes>>	No >>	
B.9.11.q. (CLIN 0063)	(q) Microsoft Systems Management Server Client Access - License only	Yes>>	No >>	
B.9.11.r. (CLIN 0064)	(r) Lotus Notes Desktop Client - License only	Yes>>	No >>	
B.9.11.s. (CLIN 0065)	(s) Non-Specific Operating System Can be single or multi-user, include media, license and documentation	Yes>>	No >>	
B.9.11.t. (CLIN 0066)	(t) Non-Specific Operating System Can be single or multi-user License only	Yes>>	No >>	

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Contractor Services				Ι
10/23/97				
RFP Reference	Required Warranty			Proposed Version #
B.12.	The Contractor shall propose two individual (flat) rates for on- site, parts and labor warranty meeting the one year requirements of this contract, for sites other than those within the Continental United States (CONUS).	Yes>>	No >>	
B.12. (CLIN 0067)	OCONUS - Workstations and Notebooks	Yes>>	No >>	
B.12. (CLIN 0068)	OCONUS - Servers	Yes>>	No >>	

Contractor Services			
10/23/97			
RFP Reference	Required Services		
IN I Neletence	Required Services		
	The Contractor shall provide:		+
B.12.	The Contractor shall provide:	V	NI-
B.12.1.	Warranty Service	Yes>>	No >>
B.12.2.	Coverage Period	Yes>>	No >>
B.12.2.1.	Response Requirements	Yes>>	No >>
B.12.2.2.	Call Identification	Yes>>	No >>
B.12.2.3.	Technician Dispatched	Yes>>	No >>
B.12.2.4.	Conditions - Preacceptance Failure Data Storage Device Repair	Yes>>	No >>
B.12.2.5.		Yes>>	No >>
B.12.2.6.	Network Server Repair	Yes>>	No >>
-	All Other Products Repair	Yes>>	No >>
B.12.3.	Repetitive Failure and/or Long Term Failure	Yes>>	No >>
B.12.3.1.	Replaced Parts	Yes>>	No >>
B.12.4.	Third Party Repair	Yes>>	No >>
Reporting Requirements			
D 40.5			.
B.12.5.	Shipping Status Reporting	Yes>>	No >>
B.12.6.	Serial Number Report	Yes>>	No >>
B.12.7.	Additional Warranty Conditions and Exclusions	Yes>>	No >>
b.12.8.	Warranty Coverage for Used Equipment	Yes>>	No >>
B.14.	Software Updates/Upgrades	Yes>>	No >>
B.15.	Reserved		
B.16.	Reports and Order Information	Yes>>	No >>
B.16.1.	Contractor Reporting Requirements	Yes>>	No >>
B.16.2.	Specific Report Requirements	Yes>>	No >>
B.16.3.	Reports:		
B.16.3.1.	Status Report with Performance Measures	Yes>>	No >>
B.16.3.2.	Invoice Report with Performance Measures	Yes>>	No >>
B.16.3.3.	Equipment Failure Report with Performance Measures	Yes>>	No >>
B.16.3.4.	Items Report	Yes>>	No >>
B.16.3.5.	Additional Report Requirements	Yes>>	No >>
B.17.	Catalog	Yes>>	No >>
B.17.1.	Product Information	Yes>>	No >>
B.17.2.	Internet Catalog Sort Feature	Yes>>	No >>
B.17.3.	Printed Catalog and Advertising	Yes>>	No >>
B.18.	Promoting the Contract	Yes>>	No >>
B.19.	Electronic Mail	Yes>>	No >>

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B.20.	Serial Numbers	Yes>>	No >>	
B.21.	Reserved			
B.22.	Reserved			
B.23.	Energy-Efficient Microcomputers, Monitors, and Printers	Yes>>	No >>	
B.23.1.	Overall Requirements	Yes>>	No >>	
B.23.2.	Energy-Efficiency Specifications	Yes>>	No >>	
B.24.	Applicable Documents	Yes>>	No >>	